



INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
		Application Number	10/618,560
		Filing Date	July 10, 2003
		First Named Inventor	Keener et al.
		Group Art Unit	1648
		Examiner Name	J. Stucker
Sheet 1 of 6	Attorney Docket Number	LIT-PI-529D1	

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
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FOREIGN PATENT DOCUMENTS						
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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
		WO 97/01636 A2	01/16/1997	Lentzen et al.		X
		JP 19830102180	11/17/1986	Takashi		X
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Sheet 2 of 6

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		BEAUMELLE, B., et al., Ricin A Chain Can Transport Unfolded Dihydrofolate Reductase into the Cytosol, 272 J. Biol. Chem. 22097-22102 (1997)	
		BRYANT, M., et al., Myristoylation-dependent Replication and Assembly of Human Immunodeficiency Virus 1, 87 Proc. Nat'l Acad. Sci. USA 523-527 (1990)	
		CHAMBERS, T.J., et al., Evidence that the N-terminal Domain of Nonstructural Protein NS3 from Yellow Fever Virus is a Serine Protease Responsible for Site-specific Cleavages in the Viral Polyprotein, 87 Proc. Nat'l Acad. Sci. USA 8898-8902 (1990)	
		CHOU, K.C., Prediction of Human Immunodeficiency Virus Protease Cleavage Sites in Proteins, 233 Anal. Biochem. 1-14 (1996)	
		FRANZ, DAVID R. AND NANCY K. JAAX, MEDICAL ASPECTS OF CHEMICAL AND BIOLOGICAL WARFARE (Chpt. 32, Ricin Toxin) 631-642.	
		GenBank accession numbers X76644, X76720, X76721, X76722, X54873, X54872, X55667, A58957	
		HOUGHTEN, 82 Proc. Nat'l Acad. Sci. USA 5131-35 (1985) (solid phase peptide synthesis)	
		KATZ, R.A., et al., The Retroviral Enzymes, 63 Annu. Rev. Biochem. 133-173 (1994)	
		KELLERMAN & FERENCI, 90 Methods in Enzymology 459-463 (1982)	
		KITAOKA, Y., Involvement of the Amino Acids Outside the Active-site Cleft in the Catalysis of Ricin A Chain, 257 Eur. J. Biochem. 255-262 (1998)	

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3

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		KORANT, B.D., Viral Proteases: An Emerging Therapeutic Target, 8 Crit. Rev. Biotechnol. 149-157 (1988)	
		KORNFIELD, H., et al., Lymphocyte Activation by HIV-1 Envelope Glycoprotein, 335 Nature 6189 (1988)	
		KWONG, P.D., et al., Structure of an HIV gp120 Envelope Glycoprotein in Complex with the CD4 Receptor and a Neutralizing Human Antibody, 393 Nature 648-659 (1998)	
		KYTE, J., et al., A Simple Method for Displaying the Hydrophobic Character of a Protein, 157 J. Mol. Biol. 105-132 (1982)	
		LAMB, F.I., et al., Nucleotide Sequence of Cloned cDNA Coding for Preprorenin, 148 Eur. J. Biochem. 265-270 (1985)	
		LAMBERT, J.M., et al., An Immunotoxin Prepared with Blocked Ricin: a Natural Plant Toxin Adapted for Therapeutic Use, 51 Cancer Res. 6236-6242 (1991)	
		LORD, J.M., et al., Ricin: Structure, Mode of Action, and Some Current Applications, 8 FASEB J. 201-208 (1994)	
		MATHE, G., The Kinetics of Cancer Cells and of HIV1: The Problems of Cell and Virus Rebounds and of Latency, 52 Biomed. Pharmacother. 413-420 (1998)	
		MIYOSHI, H., et al., Development of a Self-inactivating Lentivirus Vector, 72 J. Virol. 8150-8157 (1998)	
		NARANG, S.A., et al., 68 Meth. Enzymol. 90 (1979) (phosphotriester method)	
		PALLANCA, A., et al., Uncompetitive Inhibition by Adenine of the RNA-N-glycosidase Activity of Ribosome-inactivating Proteins, 1384 Biochim. Biophys. Acta 277-284 (1998)	

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4

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		PASTAN, L, et al., Recombinant Toxins for Cancer Treatment, 254 Science 1173-1177 (1991)	
		PATICK, A.K., et al., Protease Inhibitors as Antiviral Agents, 11 Clin. Microbiol. Rev. 614-627 (1998)	
		PERT, C.B., et al., Octapeptides Deduced from the Neuropeptide Receptor-like Pattern of Antigen T4 in Brain Potently Inhibit Human Immunodeficiency Virus Receptor Binding and T-cell Infectivity, 83 Proc. Nat'l Acad. Sci. USA 9254-9258 (1986)	
		PINCUS, S.H., et al., Anti-Human Immunodeficiency Virus Immunoconjugates, 32 Adv. Pharmacol. 205-247 (1995)	
		PINCUS, S.H., Therapeutic Potential of Anti-HIV Immunotoxins, 33 Antiviral Res. 1-9 (1996)	
		PUGACHEV, K.V., et al., Site-directed Mutagenesis of the Tick-borne Encephalitis Virus NS3 Gene Reveals the Putative Serine Protease Domain of the NS3 Protein, 328 FEBS Lett. 115-118 (1993)	
		RICHARDSON, P.T., et al., The Expression of Functional Ricin B-chain in <i>Saccharomyces cerevisiae</i> , 950 Biochim. Biophys. Acta 385-394 (1988)	
		ROBERTS, L. M., et al., Molecular Cloning of Ricin, 7 Targeted Diagn Ther 81-97 (1992)	
		ROBERTUS, J.D., et al., Structural Analysis of Ricin and Implications for Inhibitor Design, 34 Toxicon 1325-1334 (1996)	
		RUTENBER, E., et al., Structure of Ricin B-chain at 2.5 A Resolution, 10 Proteins 260-269 (1991)	
		SELA, B.A., et al., Lymphocyte Activation by Monovalent Fragments of Antibodies Reactive with Cell Surface Carbohydrates, 143 J. Exp. Med. 665-671 (1976)	

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		SIMMONS, B.M., et al., Mannose Receptor-mediated Uptake of Ricin Toxin and Ricin A Chain by Macrophages, 261 J. Biol. Chem. 7912-7920 (1986)	
		SINHA, N.D., et al., 12 Nucl. Acids Res. 4539 (1984)	
		SINHA, N.D., et al., 15 Nucl. Acids Res. 397 (1987)	
		SINHA, N.D., et al., 16 Nucl. Acids Res. 319 (1988)	
		SINHA, N.D., et al., 24 Tetrahedron Lett. 5843 (1983)	
		Tózsér, J. et al., Studies on the Symmetry and Sequence Context Dependence of the HIV-1 Proteinase Specificity, 272 J. Biol. Chem. 16807-16814 (1997)	
		TREGGAR, J.W., et al., The Lectin Gene Family of Ricinus communis: Cloning of a Functional Ricin Gene and Three Lectin Pseudogenes, 18 Plant Mol. Biol. 515-525 (1992)	
		VAN OIJEN, M.G.C.T., et al., Rationale for Use of Immunotoxins in the Treatment of HIV-infected Humans, 5 J. Drug Target 75-91 (1997)	
		VON DER HELM, K., Retroviral Proteases: Structure, Function and Inhibition from a Non-anticipated Viral Enzyme to the Target of a Most Promising HIV Therapy, 377 Biol. Chem. 765-774 (1996)	
		WANG, C.T., et al., Sequence Requirements for Incorporation of Human Immunodeficiency Virus Gag-2-galactosidase Fusion Proteins into Virus-like Particles, 59 J. Med. Virol. 180-188 (1999)	
		WESTBY, M., et al., Preparation and Characterization of Recombinant Proricin Containing an Alternative Protease-sensitive Linker Sequence, 3 Bioconj. Chem. 375-381 (1992)	

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		WOOD, K.A., et al., Preproabrin: Genomic Cloning, Characterisation and the Expression of the A-chain in Escherichia coli, 198 Eur. J. Biochem. 723-732 (1991)	
		WU, J.C., et al., Synthetic HIV-2 Protease Cleaves the GAG Precursor of HIV-1 with the Same Specificity as HIV-1 Protease, 277 Arch. Biochem. Biophys. 306-311 (1990)	
		WYATT, R., et al., The Antigenic Structure of the HIV gp120 Envelope Glycoprotein, 393 Nature 705-711 (1998)	
		WYATT, R., et al., The HIV-1 Envelope Glycoproteins: Fusogens, Antigens, and Immunogens, 280 Science 1884-1888 (1998)	
		ZHANG, A., et al., A Disulfide-bound HIV-1 V3 Loop Sequence on the Surface of Human Rhinovirus 14 Induces Neutralizing Responses Against HIV-1, 380 Biol. Chem. 365-374 (1999)	
		ZUFFEREY, R., et al., Self-inactivating Lentivirus Vector for Safe and Efficient In Vivo Gene Delivery, 72 J. Virol. 9873-9880 (1998)	

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